ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No.	: W17NR-D073
AGR No.	: A17NA-073
Applicant	: Guru
Address	: NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi- do, 10338, South Korea
Manufacturer	: Guru
Address	: NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi- do, 10338, South Korea
Type of Equipment	: Household robots
FCC ID.	: 2AOFHGURU-PEDDY-VER
Model Name	: PEDDY
Multiple Model Name	: N/A
Serial number	: N/A
Total page of Report	: 6 pages (including this page)
Date of Incoming	: November 17, 2017
Date of issue	: November 23, 2017

SUMMARY

ONETECH

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247* This test report only contains the result of a single test of the sample supplied for the examination. It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

Jae-Ho Lee / Chief Engineer ONETECH Corp.

Keun-Young, Choi / Vice President ONETECH Corp.

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Approved by:

EMC-003 (Rev.2)

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W17NR-D073	November 23, 2017	Initial Issue	All

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1. VERIFICATION OF COMPLIANCE

Applicant : Guru	: Guru				
Address : NO.301, Ilsanplaza, 22, Gobong	: NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi-do, 10338, South Korea				
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FCC ID : 2AOFHGURU-PEDDY-VER	: 2AOFHGURU-PEDDY-VER				
Model Name : PEDDY					
Brand Name : -					
Serial Number : N/A					
Date : November 23, 2017					
EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM				
E.U.T. DESCRIPTION	Household robots				
KIND OD EQUIPMENT	Modular Transmitter				
THIS REPORT CONCERNS	Original Grant				
MEASUREMENT PROCEDURES	ANSI C63.10: 2013				
TYPE OF EQUIPMENT TESTED	Pre-Production				
KIND OF EQUIPMENT					
AUTHORIZATION REQUESTED	Certification				
EQUIPMENT WILL BE OPERATED					
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247				
Modifications on the Equipment to Achieve					
Compliance	None				
Final Test was Conducted On	3 m, Semi Anechoic Chamber				

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.



2. GENERAL INFORMATION

2.1 Product Description

The Guru, Model PEDDY (referred to as the EUT in this report) is a Household robots. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Household robots	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	-1.72 dBm	
Number of Channel	40 Channel	
Modulation Type	GFSK	
Antenna Type	PCB Antenna	
Antenna Gain	3.789 dBi	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	26 MHz	
Rated Supply Voltage	DC 5.0 V	

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None



4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 RF Exposure Calculation

According to the FCC rule 1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

Kind of EUT	Household robots			
Operating Frequency Band	 Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz WLAN: 2 412 MHz ~ 2 462 MHz WLAN: 5 180 MHz ~ 5 240 MHz WLAN: 5 745 MHz ~ 5 825 MHz Bluetooth: 2 402 MHz ~ 2 480 MHz 			
	■ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz			
MAX. RF OUTPUT POWER -1.72 dBm				
Antenna Gain	3.789 dBi			
Exposure Evaluation Applied	□ MPE □ SAR			
	■ N/A			

4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

[(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [$\sqrt{f(GHz)}$] < 3

 $= (0.67/5) \text{ X} \sqrt{2.402} = 0.21$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
BLE (GFSK)	2 402	-2.22 ± 0.5	-1.72	0.67	5	0.21